

ATTENTION:	
REPAIRS MADE TO N.W.	
ENDER FLARE	

UNDERWATER BRIDGE INSPECTION REPORT

	TYPE INS	PECTION SUPP	LEMENTAL (FENDER ONLY)		
	COUNTY	BRUNSWICK	BRIDGE NO.	090014 ROUTE	Λ.	N.C. 133
	INSP. DATE	Control of the local division in which the local division is not to be a second or the local division in the l	INSP. CYCLE_	1	-A-A	STAL WATERWAY
	INSP. BY	P.G. Rutherford W.H. LOTZ	REVIEWED BY	FENDER)	Whate	OAK ISLAND)
	TYPE WORK	(PERFORMED	• • 7			
			N	IH	_(SPEC. WOR	K ONLY)
	Com	puter up	date: 7	-31-07		
		7		1	67/	/100
		1			A C	VKPG
		100		るか	沙	7/17/07
		1				Ito: Inspetals
						Mote: Inspecties Recommendation
EQUIPMENT		E SUPPLY X	WET SUIT X	COMMUNIC		X AMRON REPAIR
EQUIPMENT	USED.	LIGHTS X	ROPE X	U/W PHOTO		015
		BOAT X	CONSTRUCTIO	ON EQUIP.		
DATE	DIVER	CURRENT	VISIBILITY	METRO	DEPTH	TEAM WATER TIME
9/10/2004	PGR	TIDAL	1.5'	83° - CLEAR	20'	75 MINUTES
	WRM	TIDAL	1.5'	83° - CLEAR	20'	80 MINUTES

DATE	DIVER	CURRENT	VISIBILITY	METRO	DEPTH	TEAM WATER TIME
9/10/2004	PGR WRM	TIDAL TIDAL	1.5' 1.5'	83° - CLEAR 83° - CLEAR	20' 20'	75 MINUTES 80 MINUTES
		,				
		*.				

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

IDENTIFICATION -				
(1) STATE NAME -NORTH CAROLINA BRIDGE		090014	SUFFICIENCY RATING =	65.8
(8) STRUCTURE NUMBER(FEDERAL)	00000000	0190014	STATUS = Functionally Oboselete	
INVENTORY ROUTE (ON/UNDER) - ON	13	1001330		
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3		- CODE
(3) COUNTY CODE 19 (4) PLACE CODE			(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - INTRACOSTAL WATERWAY			(104)HIGHWAY SYSTEM NON NHS Route	C
(7) FACILITY CARRIED NC133			(26) FUNCTIONAL CLASS - Major Collector	07
(9) LOCATION 0.9 MI N JCT SR1104			(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT		0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 33° 55' 26.8" (17)LONG 78° 4'	11.4"		(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT S	SHARE		(103)TEMPORARY STRUCTURE - Not Temporary	
(99)BORDER BRIDGE STRUCTURE NO			(110)DESIGNATED NATIONAL NETWORK - Not Part of	0
			(20) TOLL On Free Road	3
STRUCTURE TYPE AND MATERIAL			(31) MAINTAIN - State Highway Agency	01
(43) STRUCTURE TYPE MAIN: Prestressed Concrete			(22) OWNER - State Highway Agency	01
TYPE - Stringer Mutlibeam or Girder Co	ODE	502	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR: Prestressed Concrete				
TYPE - Slab Co	ODE	501	CONDITION	- CODE
(45) NUMBER OF SPANS IN MAIN UNIT		37	(58) DECK	7
(46) NUMBER OF APPROACH SPANS		28	(59) SUPERSTRUCTURE	6
(107)DECK STRUCTURE TYPE - Concrete cast-in-place	COD	E 1	(60) SUBSTRUCTURE	5
(108)WEARING SURFACE / PROTECTIVE SYSTEM:			(61) CHANNEL & CHANNEL PROTECTION	6
(A) TYPE OF WEARING SURFACE - Concrete	CODE	E 1	(62) CULVERTS	N
(B) TYPE OF MEMBRANE - None	CODI	E 0		
(C) TYPE OF DECK PROTECTION - None	CODE	E 0	LOAD RATING AND POSTING	- CODE
			(31) DESIGN LOAD HS 20+MOD	6
AGE AND SERVICE	-		(64) OPERATING RATING - HS-30	154
(27) YEAR BUILT		1972	(66) INVENTORY RATING - HS-18	132
(106)YEAR RECONSTRUCTED		0	(70) BRIDGE POSTING - Posting Required	5
(42) TYPE OF SERVICE : ON - Highway			(41) STRUCTURE OPEN, POSTED ,OR CLOSED	A
UNDER - Waterway	CODE	15	DESCRIPTION - Open, No Restriction	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTU	JRE	0		
(29) AVERAGE DAILY TRAFFIC		17000	APPRAISAL	- CODE
(30) YEAR OF ADT 2005 (109) TRUCK ADT PCT		7 %	(67) STRUCTURAL EVALUATION	5
(19) BYPASS OR DETOUR LENGTH		99 MI	(68) DECK GEOMETRY	5
GEOMETRIC DATA	_		(69) UNDERCLEARANCES, VERTI & HORIZ	N
(48) LENGTH OF MAXIMUM SPAN		132 FT	(71) WATERWAY ADEQUACY	8
(49) STRUCTURE LENGTH		4249 FT	(72) APPROACH ROADWAY ALIGNMENT	8
(50)CURB OR SIDEWALK: LEFT 0.0 FT RIGHT		0.0 FT	(36) TRAFFIC SAFETY FEATURES	0111
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		40.0 FT	(11)SCOUR CRITICAL BRIDGES	Т
(52) DECK WIDTH OUT TO OUT		42.3 FT		
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		40.0 FT	PROPOSED IMPROVEMENTS	
(33) BRIDGE MEDIAN - No Median	CODE	0	(75) TYPE OF WORK - CODE	
(34) SKEW 0° (35) STRUCTURE FLARED		NO	(76) LENGTH OF STRUCTURE IMPROVEMENT	0 F1
(10) INVENTORY ROUTE MIN VERT CLEAR	99	FT 99 IN	(94) BRIDGE IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		40.0 FT	(95) ROADWAY IMPROVEMENT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	99	FT 99 IN	(96) TOTAL PROJECT COST	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad			(97) YEAR OF IMPROVEMENT COST ESTIMATE	20
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		99.9 FT	(114)FUTURE ADT 34000 (115) YEAR FUTURE ADT	2025
(56) MIN LAT UNDERCLEAR LT REF -		0.0 FT	INSPECTIONS	
NAMICATION DATA				05/18/2005
NAVIGATION CONTROL - Navigational Control	CODE		(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE	
(38) NAVIGATION CONTROL - Navigational Control	CODE		A) FRACTURE CRIT DETAIL - NO A)	
(111)PIER PROTECTION - In Place Functioning	CODE			9/01/2004
(39) NAVIGATION VERTICAL CLEARANCE		65	C) OTHER SPECIAL INSP NO C)	3,5 1/2004
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR				

BRIDGE INSPECTION RECORD AND SUMMARY

REV. 5-30-97

		FENDER C	ONLY)	POLITE	N.C. 422		-		18/07
				ROUTE	N.C. 133			ASTAL WA	HERWAT
		C to M	FOR	CDANC	E4		-	CDANC	
NIA	ROUTE ORIENTATION	3 10 N	FOR	SPANS	31	Or .	05	SPANS	
	EVALUATION CODE: 0 - 2 C	RITICAL,	8 4 PC	OR, 5 & 6 FA	IR, 7 - 9 GOO	D			
IN		0015	-	Les OLIANDII	-1	I MATERI			GRADE
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d. OPEN G	KID					AT CONDITIC	214		
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				60 REGULA	ATORY SIGN	NOTICE IS	SUED		N/A
	- PARAPETS - MEDIANS						the state of the s		NO
									N/A
1				63 TOT. FI	ELD INSP. 1	TIME (INCLUI	DE WRITE	UP)(M/H)	23 M/H
b. MISC. PREFAB DEVICES				64 TOTAL SNOOPER INSP. TIME (HRS)					
c. COMPRESSION SEALS				65 TOTAL TRAFFIC CONTROL TIME (M/H)				at it	11- 40-
d. STANDAR	RD JOINTS	T		WANTED TO					
e. OPEN JO	DINTS			v 100	70 SI&A	GENERAL C	ONDITION	RATINGS	
RIS (INCLUDI	E EXCESS SAND / GRAVEL)		a. DECK			ITEM S	58	T Y US
SUPER ST	R. (FM. 1 (90) B TRUSS) ITE	M 59		b. SUPE	RSTRUCTUR	E	ITEM S	59	FILE
INAL BEAMS	OR GIRDERS			c SUBS	TRUCTURE		ITEM 6	50	** 4
INAL JOIST	OR STRINGERS			d. CHAN	NEL & CHAI	NNEL PROT.	ITEM (31	8
S, X-FRAMES	S, BRACING, & CONN'S	Branch P							
'S, CURTAIN	WALLS, & CONN'S			LEN L	71 SI& A	FIELD APP	RAISAL RA	TINGS	f edgl
EAMS AND C	ONNECTIONS			a. WATE	RWAY ADEC	QUACY			N/A
The second secon	the state of the s			b. APPR	. RDWY. ALI	GNMENT			
SYSTEMS	(ON STRUCTURES)	Contract of				THE ?			
				72 FIELD	SCOUR EVA	LUATION			N/A
1									84.88
		S					CESSIBILIT	Y EQUIPM	-
					(CODE P, S	5, 4 or N)			N
-	Committee of the Commit			-					N
-			-				-		N
		ALLS			RUCK				N
		18	-	-					Y N
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-		and the same of the same		NOTE	** TCM # 70	C PECEDO 1	TO ONI V TI	HE EENDE	D SVETE
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			1 4	The same of	/.	61/1			
YSTEMS			8	80 INSPEC	TED BY:	Ell act	271		
	a. CONCRE b. TIMBER c. STEEL P d. OPEN GI a. CONCRE b. TIMBER c. ALUMINU d. STEEL BEELGUARDS GON OR ATT a. STEEL P b. MISC. PF c. COMPRE d. STANDAF e. OPEN JO SIS (INCLUDI SUPER ST SINAL BEAMS SINAL JOIST S, X-FRAMES SINAL JOIST S, X-FRAMES SYSTEMS C. ASSEMBLIE E. SYSTEMS D. PILES, P C. BULKHEA a. ABUT. & b. ABUT. & d. BACKWA e. ABUT. A a. ABUT. & d. BACKWA e. ABUT. A a. ABUT. & d. BACKWA e. ABUT. A a. ABUT. & b. PILES, P C. BULKHEA a. ABUT. & b. ABUT. & d. BACKWA e. ABUT. A a. ABUT. & b. PILES AI b. PILES AI	090014 COUNTY BRUNSWICK TYPE TIMBER FENDER SYSTEM N/A ROUTE ORIENTATION EVALUATION CODE: 0 - 2 C INSPECTION ITEM DECK ITEMS SURFACE a. CONCRETE b. TIMBER c. STEEL PLANK d. OPEN GRID a. CONCRETE b. TIMBER c. ALUMINUM d. STEEL BELGUARDS - PARAPETS - MEDIANS GOOR ATTACHED TO STRUCTURE) a. STEEL PL. OR FINGER PL. b. MISC. PREFAB DEVICES c. COMPRESSION SEALS d. STANDARD JOINTS e. OPEN JOINTS RIS (INCLUDE EXCESS SAND / GRAVEL SUPER STR. (FM. 1 (90) B TRUSS) ITE BINAL BEAMS OR GIRDERS SINAL JOIST OR STRINGERS S, X-FRAMES, BRACING, & CONN'S SASEMBLIES (INCLUDE MISALIGN) SYSTEMS (ON STRUCTURES) SPAN MACHINERY SUB STR ITEMS, ITEM 60 (INCLUDE SC a. ABUT. & INT. BENT CAPS & RISER b. PILES, POST, SILLS, & BRACING c. BULKHEADS, WING'S, & TIE BACKS a. ABUT. & INT. BENT CAPS b. ABUT. & BENT CAPS c. ABUT. &	090014 COUNTY BRUNSWICK TYPE TIMBER FENDER SYSTEM N/A ROUTE ORIENTATION S to N EVALUATION CODE: 0 - 2 CRITICAL, 3 INSPECTION ITEM DECK ITEMS GRAD SURFACE a. CONCRETE b. TIMBER c. STEEL PLANK d. OPEN GRID a. CONCRETE b. TIMBER c. ALUMINUM d. STEEL BEELGUARDS - PARAPETS - MEDIANS GON OR ATTACHED TO STRUCTURE) a. STEEL PL. OR FINGER PL. b. MISC. PREFAB DEVICES c. COMPRESSION SEALS d. STANDARD JOINTS e. OPEN JOINTS RIS (INCLUDE EXCESS SAND / GRAVEL) SUPER STR. (FM. 1 (90) B TRUSS) ITEM 59 INAL BEAMS OR GIRDERS INAL JOIST OR STRINGERS S, X-FRAMES, BRACING, & CONN'S SASSEMBLIES (INCLUDE MISALIGN) E SYSTEMS (ON STRUCTURES) SPAN MACHINERY SUB STR ITEMS, ITEM 60 (INCLUDE SCOUR) a. ABUT. & INT. BENT CAPS & RISERS b. PILES, POST, SILLS, & BRACING c. BULKHEADS, WING'S, & TIE BACKS a. ABUT. & INT. BENT CAPS b. ABUT. & BENT COL'S & BREASTWALLS c. ABUT. & INT. BENT CAPS b. ABUT. & INT. BENT CAPS c. ABUT. & INT. BENT	090014 COUNTY BRUNSWICK TYPE TIMBER FENDER SYSTEM N/A ROUTE ORIENTATION S to N FOR S EVALUATION CODE: 0 - 2 CRITICAL, 3 & 4 PC INSPECTION ITEM DECK ITEMS GRADE SURFACE a. CONCRETE b. TIMBER c. STEEL PLANK d. OPEN GRID a. CONCRETE b. TIMBER c. ALUMINUM d. STEEL IEELGUARDS - PARAPETS - MEDIANS GON OR ATTACHED TO STRUCTURE) a. STEEL PL. OR FINGER PL. b. MISC. PREFAB DEVICES c. COMPRESSION SEALS d. STANDARD JOINTS e. OPEN JOINTS RIS (INCLUDE EXCESS SAND / GRAVEL.) SUPER STR. (FM. 1 (90) B TRUSS) ITEM 59 INAL BEAMS OR GIRDERS INAL JOIST OR STRINGERS S, X-FRAMES, BRACING, & CONN'S S, CURTAIN WALLS, & CONN'S S-AMS AND CONNECTIONS S ASSEMBLIES (INCLUDE MISALIGN) SYSTEMS (ON STRUCTURES) SPAN MACHINERY SUB STR ITEMS, ITEM 60 (INCLUDE SCOUR) a. ABUT. & INT. BENT CAPS & RISERS b. BLUKHEADS, WING'S, & TIE BACKS a. ABUT. & INT. BENT CAPS b. ABUT. & BENT COL'S & BREASTWALLS c. ABUT. & INT. BENT PILES d. BACKWALLS - WING'S - RETAIN. WALLS e. ABUT. & INT. BENT CAPS & RISERS b. PILES AND BRACING AND BULKHEADS	090014 COUNTY BRUNSWICK ROUTE	090014 COUNTY BRUNSWICK YPE TIMBER FENDER SYSTEM N/A ROUTE ORIENTATION S to N FOR SPANS 51 EVALUATION CODE: 0 - 2 CRITICAL, 3 & 4 POOR, 5 & 6 FAIR, 7 - 9 GOC INSPECTION ITEM DECK ITEMS GRADE 45 CHANNEL 8. CHANNEL 9ROT. D. TIMBER C. STEEL PLANK D. OPEN GRID 50 APPROACH ROADW. 51 APPROACH SLABS 52 PAINT SYSTEMS 53 UTILITIES a. CONCRETE 54 RESPONSE TO LIVI D. TIMBER 55 ESTIMATED REMAIN D. T	PROUTE N.C. 133 OVER YEAR BUIL NA ROUTE ORIENTATION S to N FOR SPANS 51 OF EVALUATION CODE: 0 - 2 CRITICAL, 3 & 4 POOR, 5 & 6 FAIR, 7 - 9 GOOD INSPECTION ITEM DECK ITEMS GRADE A CONCRETE C. CONCRETE C. STEEL PLANK C. OPEN GRID D. TIMBER D. CONCRETE D. TIMBER C. OFFINE S JUTILITIES A. CONCRETE D. TIMBER	090014 COUNTY BRUNSWICK ROUTE N.C. 133 OVER INTRACO	980014 COUNTY BRUNSWICK ROUTE N.C. 133 OVER INTRACOASTAL WAY YPE TIMBER FENDER SYSTEM YEAR BUILT 1972 YEAR BUI

Bridge I & A Form 1 (82) H Revised 6/4/97

FIELD INSPECTION REPORT
BRIDGE INSPECTION & ANALYSIS

Bridge No. 090014

Route

N.C. 133

County

BRUNSWICK

Date:

6/18/07

Bridge Maint. Unit Bridge Inspection Sect.

State of North Carolina Dept. of Transportation

Division of Highways

Team Leader:

WHILETZP.G. RUTHERFORD (ACTING TL)

B. HANGOCK, P.G. RUTHERFORD

WIR, MUELLER, JIM AHLMARIL

Item No.

Assisted By:

40

TIMBER FENDER SYSTEM (3)

- PREVIOUSLY NOTED EXCESSIVE LATERAL MOVEMENT OF FENDER SYSTEM HAS BEEN REPAIRED BY DRIVING AN ADDITIONAL PILE AT EACH CLUSTER AND OVERLAPPING ADDITIONAL WALERS

- PILES

MOST PILES HAVE MARINE BORER DAMAGE 1" TO 3" DEEP IN THE TIDAL ZONE WITH SOME PILES TO 5" DEEP

SEVERAL PILES ARE BORER DAMAGED WITH UP TO 90 % LOSS NEAR LOWER BOLTED CONNECTIONS

ADDITIONAL PILES DRIVEN TO STIFFEN THE FENDER SYSTEM ARE C.C.A. PILES , THE REST OF THE PILES ARE CREOSOTE PILES

CCA PILES SHOW RANDOM BORER HOLES TO 3/4".

SOME PILES ON NORTH AND SOUTH FENDERS ARE 100% DETERIORATED WITH CCA TIMBERS DRIVEN BESIDE THEM.

- WALERS

LOWER ROWS OF WALERS ARE MISSING AT RANDOM LOCATIONS

NUMEROUS WALERS ARE HOLLOW AND SEVERELY DETERIORATED AT ENDS (UP TO 4' DEEP)
DUE TO MARINE BORERS

WALERS IN THE TIDAL ZONE ARE HEAVILY BORER DAMAGED +/- 2" DEEP WITH SEVERE LOSS AT RANDOM LOWER WALERS

NUMEROUS SPACER BLOCKS ARE MISSING THROUGH OUT FENDER SYSTEM ADDED WALERS ARE C.C.A. , THE REST OF THE WALERS ARE CREOSOTE

- HARDWARE

BOLTED CONNECTIONS HAVE 30 % TO 50 % LOSS DUE TO RUST IN THE TIDAL ZONE WITH ONLY MINOR LOSS AT OTHER LOCATIONS

MODERATE RUST ON CABLE WRAPS WITH MOST UPPER CABLES COMPLETELY SEPARATED DUE TO RUST

- OLD PILE STUBS TO 4' ABOVE M/L THROUGH OUT FENDER SYSTEM

VERTICAL CLEARANCE MARKER MISSING AT WEST END. VERTICAL CLEARANCE MARKER MISSING IN TIDAL ZONE AT EAST END.

PREVIOUS DAMAGE AT NORTHWEST FLARE HAS BEEN REPAIRED WITH CCA TIMBER JUSTIFYING RAISING THE GRADE TO (4).
NORTHWEST DOLPHIN REPLACED WITH CCA TIMBER PILES.

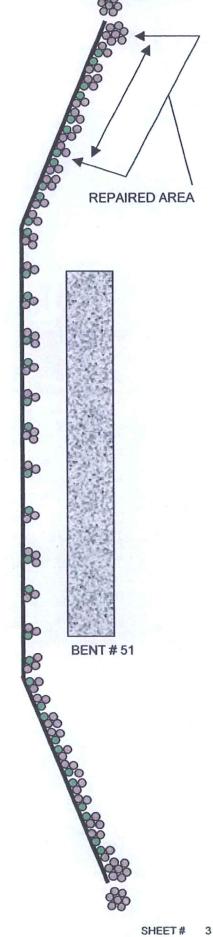
NOTE: APPROXIMATELY 20' SAILBOAT SUNK AT EAST END OF BENT 50 AT A 45 DEGREE ANGLE FROM FOOTING TO FENDER AND LEANING AGAINST SEVERAL BATTER PILES.

FENDER PLAN VIEW





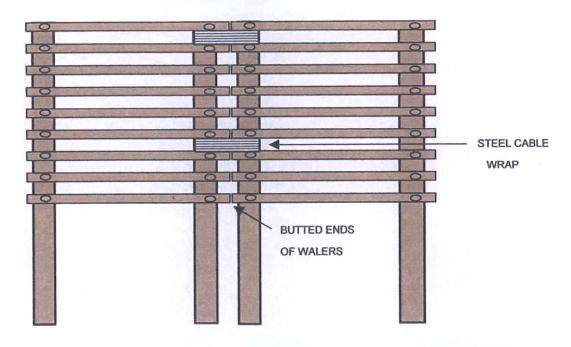
- DENOTES OLDER CREOSOTE PILES
- DENOTES ADDED C.C.A. PILES



BRUNSWICK

FENDER PROFILE

ORIGINAL DESIGN



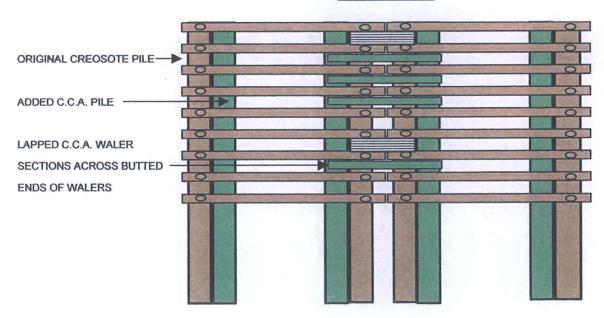
12" AVERAGE DIAMETER CREOSOTE TIMBER PILES

9 ROWS OF 10" x 10" CREOSOTE TIMBER WALERS

(WALERS WERE NOT LAPPED WHICH ALOWED INDEPENDENT MOVEMENT OF FENDER SECTIONS)

REPAIRS WERE MADE TO STIFFEN FENDER SYSTEM CONSISTING OF DRIVING ADDITIONAL PILES AT EACH CLUSTER AND BY LAPPING ADDED WALER SECTIONS ACROSS ORIGINAL BUTTED ENDS OF WALERS

REPAIR DETAIL



BRIDGE INSPECTOR'S RECOMMENDATIONS FOR MAINTENANCE REPAIRS

Bridge: 090014

County:

BRUNSWICK Division: 3

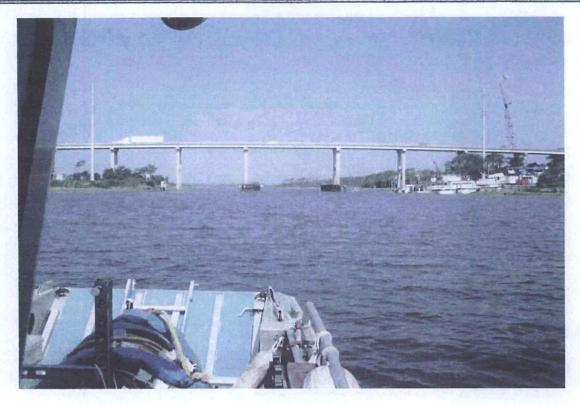
Insp. By W.H. LOTZ Date

6/18/07 Check By:

Date

These Repairs Should Be Made Within Twelve Months From The Date Of This Inspection.

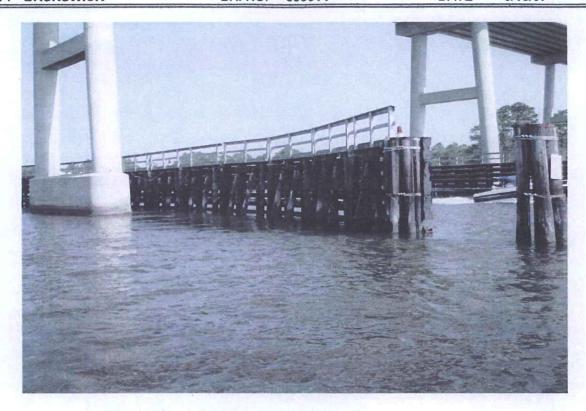
Function Code	Description of Function	Unit	Quantity	Remarks	Est. cost
587	MAINTENANCE OF FENDER SYSTEM	M/H	1500	REPAIR OR REPLACE DETERIORATED AND MISSING FENDER COMPONENTS INSTALL VERTICAL CLEARANCE MARKERS	
			l'ai		



LOOKING WEST

LOOKING EAST





BACKSIDE SOUTH FENDER





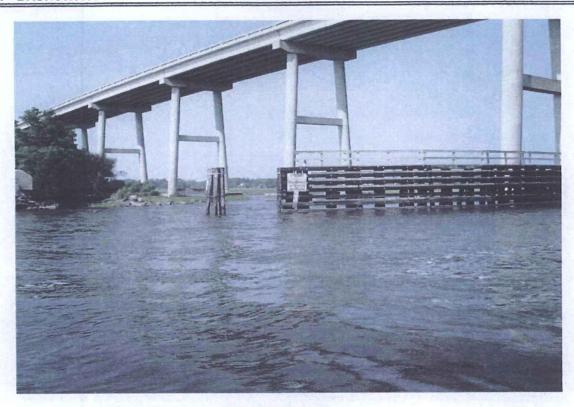


SOUTHWEST DOLPHIN



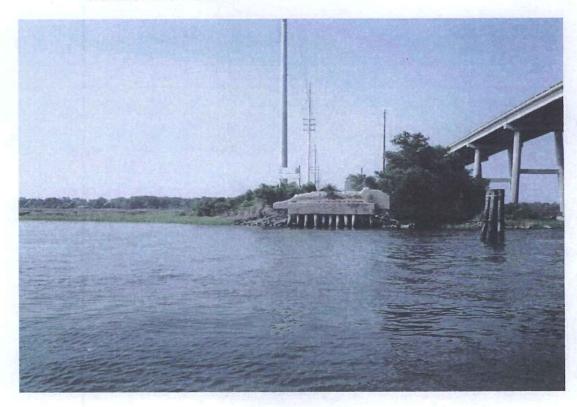


6/18/07



S.E. FLARE AND CLEARANCE MARKER







BACKSIDE NORTH FENDER







SOUTHWEST DOLPHIN

RUSTED BROKEN CABLE WRAPS





BROKEN HANGING WALER, N.FENDER





6/18/07

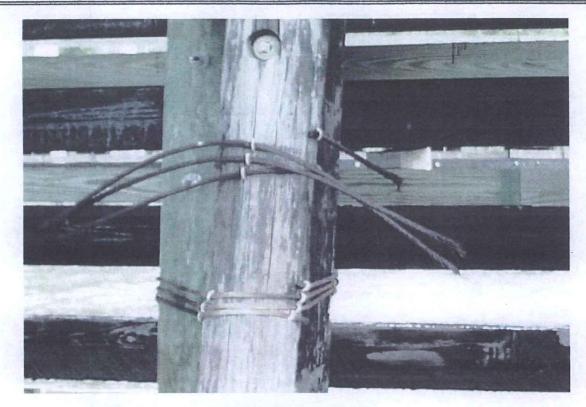


DECAYED PILE, N.FENDER





6/18/07



BROKEN RUSTED CABLE WRAPS, S.FENDER







3" DEEP X 3" DIAMETER BORER HOLE IN PILE, S.FENDER







U/W PHOTO OF SEVERED PILE, S.FENDER





DEPARTMENT of TRANSPORTATION

DIVISION of HIGHWAYS

BRIDGE MAINTENANCE UNIT

STRUCTURE DATA FILE

COUNTY		BRUNSWICK	_ BRIDGE I	NO. 090014					
CONTE	NTS:	DATA CARD							
	STRUCTURE DATA WORK SHEETS								
		STREAM BED SO	UNDINGS & PRO	FILE SKETCH					
		FORM 501 or 502							
		FORM BMD - 9	FORM BMD - 9						
		RETURNED PROMPT ACTION NOTICE SHOWING REPAIRS							
		OTHER SKETCHE	S & NOTES SHO	WING STRUCTU	RE DETAILS				
		PHOTOGRAPHS							
NOTE:		CTURE ANALYSIS : I PLANS ARE AVAII		YES or N	40				
	FIELD	INSPECTOR							
		FATHO	METER PROFIL	E ENCLOSED					
	-								
	-	DATE	: 6/18/07	BY:	W.H. LOTZ				

BRIDGE MAINTENANCE UNIT

RUN DATE DATA ON EXISTING STRUCTURE 07/31/2007 LENGTH: STRUCTURE NUMBER: DIV: DIST: COUNTY: **4249 FEET** 090014 BRUNSWICK FEATURE INTERSECTED: ROUTE CARRIED: INTRACOSTAL WATERWAY NC133 **BRIDGE NAME:** LOCATED: OAK ISLAND BRIDGE 0.9 MI N JCT SR1104 ADT & YR: RAIL TYPE: SYST.UNDER: SYST.ON: FUNC. CLASS: LT 021 RT 021 17000 2005 NFA 07 FA FED.AID PROJ: **DESIGN LOAD:** PROJ: BY: BUILT: HS 8.1313502 DOH 1972 20+MOD LANES: SKEW: ALIGNMENT: PROJ: BY: REHAB: ON 2 UNDER 0 90 TAN 0 WATER DEPTH: HT. CRN. TO BED: NAVIGATION: 21 101 FT FT HC 90 FT VC 65 REINF.CONC.DECK ON PRESTR.CONC.CORED SLAB&PRESTR.CONC.GDRS. SUPERSTRUCTURE: SUBSTRUCTURE: E.BTS&I.BT.1-36,63&64:RC CAP/PPC PILES;INT.BT.37-62;RCP&B SPANS: 1@41'0.5, 27@40',11@65',22@92',2@96',1@132',1@65'-4.5 **BEAMS OR GIRDERS:** SPANS1-28:14PPC CORED SLAB SECTIONS; SPANS29-65:PPC GIRDERS DECK (OUT TO OUT): **ENCROACHMENT:** FLOOR: 42.3 FT PPPCCS/6A WS **CLEAR ROADWAY:** SIDEWALK OR CURB: **BETWEEN RAILS:** 0.0 FT RT 0.0 FT LT 40.0 FT 40.0 FT VERT.CL.UNDER: HOR.CL.UNDER: VERT.CL.OVER: 0.0 FT 00 FT 00 IN 99 FT 99 IN CONTR.MEMBER: POSTED: OPE.RTG.: INV.RTG.: SLAB PC SV TTST 0 DATE HS-30 HS-18 **GREEN LINE ROUTE:** SYSTEM: Primary N.C. Route 4TH OPENING: 5TH OPENING: 3RD OPENING: 2ND OPENING: REMARKS:

FATHOMETER PROFILE

WATER SURFACE TO TOP OF FOOTING AT BENT #49 = 8.2'

RUNS MADE SOUTH TO NORTH +/- 10' FROM BENTS # 49 - # 52

WEST SIDE

BENT#	WATER DEPTH
49	11.1'
50	18.7'
SOUTH FENDER	21.5'
NORTH FENDER	24.0'
51	18.4'
52	5.7'

FATHOMETER PROFILE

WATER SURFACE TO TOP OF FOOTING AT BENT #49 = 8.2'

RUNS MADE SOUTH TO NORTH +/- 10' FROM BENTS # 49 - # 52

EAST SIDE

BENT#	WATER DEPTH
49	3.3'
50	17.4'
SOUTH FENDER	22.1'
NORTH FENDER	24.5'
51	15.9'
52	2.2'